

※ Thanks for selecting the WiFi transmission terminal; please read this manual carefully before using the product.

※ Please keep this manual for future reference.

WiFi 2.4G Adapter

EPEVER WiFi 2.4G RJ45 A

EPEVER WiFi 2.4G DB9 B

1. Overview

Through a local WiFi 2.4G network, the WiFi 2.4G adapter can transmit all operational data from the EPEVER solar controller, inverter, or inverter/charger to the EPEVER cloud server in real-time. Users can remotely monitor the connected devices and program parameters via the EPEVER server, mobile APP, or the large screen.

Features:

- Applicable to EPEVER controllers, inverters, or inverter/charger with RJ45, DB9 interfaces
- Use immediately after connecting; easy and convenient operation
- Directly powered by the communication port
- Up to 30 meters of communication distance
- Support the "Local" and "EPEVER Cloud" working mode.
- One key to restoring the factory settings

2. Appearance

2.1 EPEVER WiFi 2.4G RJ45 A



Interface instruction

No.	Name	Instruction
①	RJ45 port	Connect to the solar controller, inverter, or inverter/charger
②	Reload button	One key to restoring factory settings Note: Long press the Reload button with a sharp object when the terminal's power is on. The Link indicator flashes twice quickly, and the factory settings are restored.
③	Link indicator	Indicate the communication status
④	Power indicator	Indicate the power status

Indicator instruction

Indicator	Status	Instruction
Link indicator	ON solid in green	Connect to the WiFi
	OFF	Not connect to the WiFi
	Fast flashing in green	Reset to the factory mode
Power indicator	ON solid in green	Normal powered on
	OFF	Not powered on

2.2 EPEVER WiFi 2.4G DB9 B

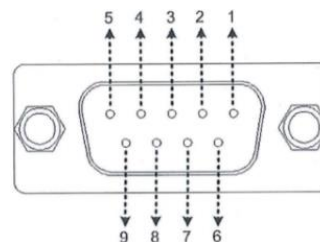


Interface instruction

No.	Name	Instruction
①	DB9 male connector★	Connect to the solar controller, inverter, or inverter/charger
②	Antenna	Enhance the signal transmission

③	Reset button	One key to restoring factory settings Note: Long press the Reset button through the KEY hole with a sharp object when the terminal's power is on. The indicator light flashes twice quickly, and the factory settings are restored.
④	Network Indicator	Indicate the communication status (Observe the indicator status through the KEY hole)
⑤	Power Indicator	Indicate the power status

★ Connect the EPEVER WiFi 2.4G DB9 B to the solar controller, inverter, or inverter/charger by a DB-9 female connector. The wire sequence and name of the DB9 female connector are shown below.



No.	Name	Instruction	No.	Name	Instruction
1	NC	Floating	6	NC	Floating
2	NC	Floating	7	RS485-A	RS485-A
3	VCC2	Power2 (12V/200mA)	8	RS485-B	RS485-B
4	GND2	Power GND2	9	VCC1	Power1 (5V/400mA)
5	GND1	Power GND1			

Indicator instruction

Indicator	Status	Instruction
Network Indicator	ON solid in green	Connect to the WiFi
	OFF	Not connect to the WiFi
	Fast flashing in green	Reset to the factory mode
Power Indicator	ON solid in green	Normal powered on
	OFF	Not powered on

3. Specifications

Model	EPEVER WiFi 2.4G RJ45 A	EPEVER WiFi 2.4G DB9 B
Parameters		
Input voltage	5VDC	
Power consumption	Peak emission: 5V@100mA; Idle: 5V@40mA	
Enclosure	IP54	
Communication method	RS485	
Com. parameters	9600 ~ 115200bps, 8N1	
Working Frequency	2.4~2.4835GHz	
Antenna gain	2.5dBi~ 5dBi	
Environment temp.	-40°C~ 85°C	
Com. standard	EPEVER general communication standard V1.1.0	
Com. protocol	EPEVER IoT communication protocol V1.1	
Com. port	RJ45	DB9
Dimension	66.24* 51.28* 23.76mm	101.2* 64* 26mm
Net weight	38.5g	39.5g

4. Disclaimers

The warranty does not apply to the following conditions:

- Damage caused by improper use or inappropriate environment.
- The parameter setting exceeds the WiFi terminal's limit.
- Damage caused by working temperature exceeds the rated range.
- Unauthorized dismantles or attempted repairs.
- Damage caused by force majeure.
- Damage occurred during transportation or handling.

5. WiFi on Cloud (connect the device to the EPEVER cloud server)

CAUTION: Please get the Android or IOS version of the EPEVER cloud APP according to your phone system and install it successfully.

Step 1: Connect the WiFi module to the device (select the connection cable by the COM port).	Step 2: Open the APP, click the "EPEVER Cloud" icon, and input the account to log in.	Step 3: Click the "Plant" icon (it is "Light" icon instead when login with the streetlight account), and select a project.	Step 4: Click "+" > Add Device" on the "Plant List" page.	Step 5: Select the device to be added to the cloud server.	Step 6: Select the connected WiFi module.
---	--	---	--	---	--

Step 12: Click "Confirm" to go to the WiFi setting. Connect the phone to the router WiFi again. Return to the APP, the Plant or light project shows.	Step 11: Enter the WiFi module configuring page. Do not disconnect the network while configuring RTU.	Step 10: Click "Set up Wi-Fi" and connect the phone to the "HN_xx" WiFi (see the model's label for password). Back to the APP, click "Next."	Step 9: Input the router password and click "Next." (Put the router in a 2.4G WiFi area).	Step 8: This page shows if the module's IMEI has been recorded in the cloud server, and click "Next."	Step 7: Input the ID (or scan the QR code) on the module label, and click "Confirm."
---	--	---	--	--	---

(Option) Step 9: Return to the APP, and click "Read device." Copy the ID and IMEI, then send them to our technical staff. Users can normally add the module after it is recorded in the cloud server.

(Option) Step 8: Right page shows if the module's IMEI has not been recorded in the cloud server. Click "Connect RTU" to jump to the WiFi setting, and connect the phone to the "HN_xx" WiFi (see the model's label for password).

6. Local Debugging (direct point-to-point communication with the device via WiFi)

Step 1: Connect the WiFi module to the device (connection figure, see [Step1](#) in chapter 5, "WiFi on Cloud").

Step 2: Open the APP and click the "Local" icon.	Step 3: Click the "WiFi" or to go to the phone WiFi setting.	Step 4: Connect the phone to the "HN_xx" WiFi (see the model's label for password).	Step 5: After the WiFi connection, return the APP and click the connected WiFi module.	Step 6: Auto identify the connected device; you can also select the device manually.	Step 7: After the device connection, the real-time page shows. Click on the top right corner.	Step 8: Enter the parameter setting page to read and write related parameters.
---	--	--	---	---	---	---